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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	8
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Complete if Known

Application Number	10/783,927
Filing Date	February 20, 2004
First Named Inventor	Ronald A. Fleming
Art Unit	1614
Examiner Name	James D. Anderson
Attorney Docket Number	Kucera-5001

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US- 3,798,209-A	03-19-1974	Witkowski et al.	
	A2	US- RE29,835-Re	11-14-1978	Witkowski et al.	
	A3	US- 4,211,771-A	07-08-1980	Witkowski et al.	
	A4	US- 4,444,766-A	04-24-1984	Bosies et al.	
	A5	US- 4,493,832-A	01-15-1985	Teraji et al.	
	A6	US- 4,522,811-A	06-11-1985	Eppstein et al.	
	A7	US- 4,559,157-A	12-17-1985	Smith et al.	
	A8	US- 4,562,179-A	12-31-1985	Teraji et al.	
	A9	US- 4,599,205-A	07-08-1986	Lautenschlager et al.	
	A10	US- 4,608,392-A	08-26-1986	Jacquet et al.	
	A11	US- 4,820,508-A	04-11-1989	Wortzman	
	A12	US- 4,938,949-A	07-03-1990	Borch et al.	
	A13	US- 4,992,478-A	02-12-1991	Geria	
	A14	US- 5,026,687-A	06-25-1991	Yarchoan et al.	
	A15	US- 5,116,992-A	05-26-1992	Braquet et al.	
	A16	US- 5,496,546-A	03-05-1996	Wang et al.	
	A17	US- 5,614,548-A	03-25-1997	Piantadosi et al.	
	A18	US- 5,633,388-A	03-27-1997	Diana et al.	
	A19	US- 5,770,584-A	06-23-1998	Kucera et al.	

FOREIGN PATENT DOCUMENTS

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A20	US-	5,830,905-A1	11-03-1998	Diana et al.	
A21	US-	5,846,964-A1	12-08-1998	Ozeki	
A22	US-	5,891,874-A1	04-06-1999	Colacino et al.	
A23	US-	5,922,757-A1	07-13-1999	Chojkier et al.	
A24	US-	5,962,437-A1	10-05-1999	Kucera et al.	
A25	US-	6,034,134-A1	03-07-2000	Gold et al.	
A26	US-	2002/0082242-A1	06-27-2002	Kucera et al.	
A27	US-	6,429,227-B1	08-06-2002	Schneider et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
B1	DE	19914474	10-07-1999	Hoffmann-La Roche	abstract
B2	JP	06-206699	10-15-1998	Eisai Co. Ltd.	abstract
B3	JP	10-101591	04-21-1998	Eisai Co. Ltd.	abstract
B4	WO	90/11079	10-04-1990	Alcon Laboratories	
B5	WO	91/05558	05-02-1991	Boehringer-Mannheim	abstract
B6	WO	91/09602	07-11-1991	Boehringer-Mannheim	abstract

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		Country Code* ¹ Number* ² Kind Code* ³ (if known)	MM-DD-YYYY			
B7	WO 92/22289		12-12-1992	University of California		
B8	WO 93/08807		05-13-1993	Fost;Perella Komor		
B9	WO 96/06620		03-07-1996	Wake Forest U.; U.N.C.		
B10	WO 96/39197		12-12-1996	IMARx Pharmaceutical		
B11	WO 98/17679		04-30-1998	Vertex Pharmaceutical		
B12	WO 98/22496		05-28-1998	Hoffmann-La Roche		

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Sheet	4	of	8
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Examiner Name	James D. Anderson
Attorney Docket Number	Kucera-5001

Sheet 5 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	ALT, M., et al.: "Specific inhibition of hepatitis C viral gene expression by antisense phosphorothioate oligodeoxynucleotides," Hepatology, 22:707-717, 1995	
	C2	ALT, M., et al.: "Core specific antisense phosphorothioate oligodeoxynucleotides . . ." Archives of Virology, 142:589-599, 1997	
	C3	ATTWOOD, et al.: "The design and synthesis of potent inhibitors of hepatitis C virus NS3-4A proteinase," Antiviral Chemistry and Chemotherapy, 10(5):259-273, 1999	
	C4	BATTAGLIA, A.M., et al.: "Combination therapy with interferon and ribavirin in the treatment of chronic hepatitis C infection", Ann. Pharmacother, 34:487-494, 2000	
	C5	BERENQUER, M., et al.: "Hepatitis C virus in the transplant setting" Antivir. Ther., 3(supp. 3): 125-136, 1998	
	C6	BUCHEN-OSMOND, C., Togaviridae. In: ICTVdb - The Universal Virus Database, version 9: ICTVdb Management, www.ictvdb.org/management/ictvdb/00-072-01-004.htm. No publication date	
	C7	CENTERS FOR DISEASE CONTROL AND PREVENTION: "Update: Severe Acute Respiratory Syndrome-Worldwide . . ." Morbidity and Mortality Weekly Report, 52(28): 664-665, 2003	
	C8	CHU, M., et al.: "Structure of Sch 68631: A new hepatitis C proteinase inhibitor from Streptomyces sp.," Tetrahedron Letters, 37:7229-7232, 1996	
	C9	CINATL, J., et al.: "Treatment of SARS with human interferons," Lancet, 362(9380):293-294, 2003	
	C10	DAVIS, G.L.: " Current therapy for chronic Hepatitis C," Gastroenterology 118:S104-S114, 2000	

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Date Considered

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Attorney Docket Number	Kucera-5001

Sheet 6 of 8

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	C11	FERRARI E., et al.: "Characterization of soluble hepatitis C virus RNA-dependent RNA polymerase expressed in Escherichia coli," Journal of Virology, 73(2), 1649-1654, 1999	
	C12	GALDERISI, U., et al.: "Antisense oligonucleotides as therapeutic agents," Journal of Cellular Physiology, 181(2):251-257, 1999	
	C13	HOLMES, K.V.: "SARS-associated coronavirus", New England Journal of Medicine, 348 (20):1948-1951, 2003	
	C14	HSU, LY., et al.: "Severe acute respiratory syndrome (SARS) in Singapore: clinical features of index patient and initial contacts," Emerg. Infect. Dis., 9(6):713-717, 2003	
	C15	KAKIUCHI, N., et al.: "Non-peptide inhibitors of HCV serine proteinase," FEBS Letters, 421 (3):217-220, 1998	
	C16	KRUGNER-HIGBY, L., et al.: "Membrane-interactive phospholipids inhibit HIV type 1-induced cell ...," AIDS Res. & Human Retrovir., 11(6):705-712, 1995	
	C17	KUCERA, L.S., et al.: "Synthesis and Evaluation of a Novel Synthetic Phosphocholine Lipid-AZT ...," Nucleosides, Nucleotides, and Nucleic Acids, 23(1-2):385-399, 2004	
	C18	LOHMANN, V., et al.: "Biochemical and kinetic analyses to NS5B RNA-dependent RNA polymerase of the hepatitis C Virus," Virology, 249(1):108-118, 1998	
	C19	MACEJAK, D.J., et al.: "Inhibition of viral replication by nuclease resistant hammerhead ribozymes directed ...," Hepatology, 30(4 Pt 2):409A, abstract 995, 1999	
	C20	MARRA, M.A., et al.: "The Genome sequence of the SARS-associated coronavirus," Science, vol. 300 (5624):1399-1404, 2003	

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	C21	MEYER, K.L., et al.: "In vitro evaluation of phosphocholine and quaternary ammonium containing lipid . . ." Journal of Medicinal Chemistry, 34(4):1377-1383, 1991	
	C22	MORRIS-NATSCHKE, S., et al.: "Synthesis of sulfur analogues of alkyl lysophospholipid and neoplastic cell growth inhibitory properties," J. Med. Chem., 29(10):2114-2117, 1986	
	C23	OUYANG, H., et al.: "Structure-activity relationship for enhancement of paracellular permeability . . .," J. Med. Chem., 45(13):2857-2866, 2002	
	C24	PIANTADIOSI, C., et al.: "Synthesis and evaluation of novel ether lipid nucleoside conjugates for anti-HIV-1 activity," J. Med. Chem., 34(4):1408-1414, 1991	
	C25	POUTANEN, S.M., et al.: "Identification of severe acute respiratory syndrome in Canada," N. Engl. J. Med., 348(20):1995-2005, 2003	
	C26	QASIM, M.A., et al.: "Intercalating additivity. Association of P1 variants of eglin c and of turkey ovomucoid third domain . . .," Biochemistry, 36(7):1598-1607, 1997	
	C27	RAINER, T.H., et al.: "Evaluation WHO criteria for identifying patients with severe acute respiratory syndrome out of hospital," Brit. Med. J., 328(7403):1354-1358, 2003	
	C28	ROTA, P.A., et al.: "Characterization of a novel coronavirus associated with severe acute respiratory syndrome," Science, 300(5624):1394-1399, 2003	
	C29	SUDO, K., et al.: "Novel hepatitis C virus protease inhibitors: thiazolidine derivatives," Biochemical and Biophysical Research Communications, 238:643-647, 1997	
	C30	SUDO, K., et al.: "Erratum: Novel hepatitis C virus protease inhibitors: 2,4,6-trihydroxy,3-nitro-benzamide . . .," Antiviral Chemistry and Chemotherapy, 8(6),186, 1998	

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	C31	SUDO, K., et al.: "Establishment of an in vitro assay system for screening hepatitis C virus protease inhibitors . . .," Antiviral Research, 32(1):9-18, 1996	
	C32	TAKESHITA, N., et al.: "An enzyme-linked immunosorbent assay for detecting proteolytic activity of hepatitis C . . .," Analytical Biochemistry, 247(2):242-246, 1997	
	C33	TSANG, K.W., et al., "A cluster of cases of severe acute respiratory syndrome in Hong Kong," N. Engl. J. Med., 348(20):1977-1985, 2003	
	C34	CHU, M., et al.: "Isolation and structure of SCH 351633: a novel hepatitis . . .," Bioorganic and Medicinal Chemistry Letters, 9(14): 1949-1952, 1999	
	C35	KUCERA, L.S., et al.: "Novel membrane-interactive ether lipid analogs that inhibit infections HIV-1 production . . .," Aids Res. Hum. Retrovirus, 6:491-501, 1990	

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